



REZNOR®

RHCLN

Low NO_x High Efficiency Condensing Heater Module

 **NORTEK™**
GLOBAL HVAC





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Low NO_x High Efficiency Condensing Heater Module

Reznor RHCLN gas fired heating modules are designed for inclusion in air handling units to provide a high efficiency gas fired heating section.

They may also be used for replacing steam and hot water coils in existing units and plenum systems to enable changeover from central boiler plant to decentralised gas fired systems.

The units also provide an ideal heating module for installation in ductwork systems and a variety of industrial applications including drying and curing.

Model Range

A total of six models are available with outputs ranging from 28 to 115kW. Where higher heat outputs are required, modules can be stacked, mounted in series or even side by side if sufficient space for access is available.

Energy Efficiency

RHCLN gas fired heating sections provide up to 106% (ncv) thermal efficiency directly at the point of use, thereby eliminating the distribution and standby losses normally associated with central boiler plants. In times of rapidly increasing energy costs, reducing energy consumption makes sense both financially and environmentally, since this also significantly reduces CO₂ emissions.

Although condensing air heaters require a higher initial capital investment, they are very economical and can repay the extra initial cost in fuel savings in 2-4 years depending on usage.

When replacing traditional hot water coil & boiler systems, savings of up to 30% can be achieved.

Optimised energy usage and reduced running costs result from:

- > High turn down ratio from the pre-mix modulating burner
- > Instant response to changing conditions
- > Reduced pre-heat period
- > Elimination of residual thermal mass on plant shut down
- > Low NO_x emissions (class 5)

CE Certification

All heating modules are fully CE certified and are supplied with fitting instructions.

Each unit is fully tested prior to despatch, optional on site commissioning and full after sales service is available through a nationwide network of in-house service engineers.

Features & Benefits

- > Application flexibility – units can accommodate both vertical and horizontal airflows.
- > Units can easily be modified for opposite air flow directions, even on site.
- > Modulating burner fitted as standard.
- > Stainless steel combustion chamber & heat exchanger.
- > Low cost – simple installation reduces costs
- > Low NO_x emissions (class 5)

Reduced Installation Costs

The application of gas fired heating modules directly at the point of use, eliminates the need for a central boiler plant with all the associated costs and space requirements for the plant room, boiler, pumps, pipework and insulation.

Gas fired heating modules also remove the risk of freezing and subsequent costs of frost protection for the heating coils and pipework, a factor which is particularly relevant for external or rooftop units.

Simple Installation

The heating modules are designed for fast and simple installation and only require "coil slides" for incorporation within an Air Handling Unit.

Air Flow Directions and Configurations

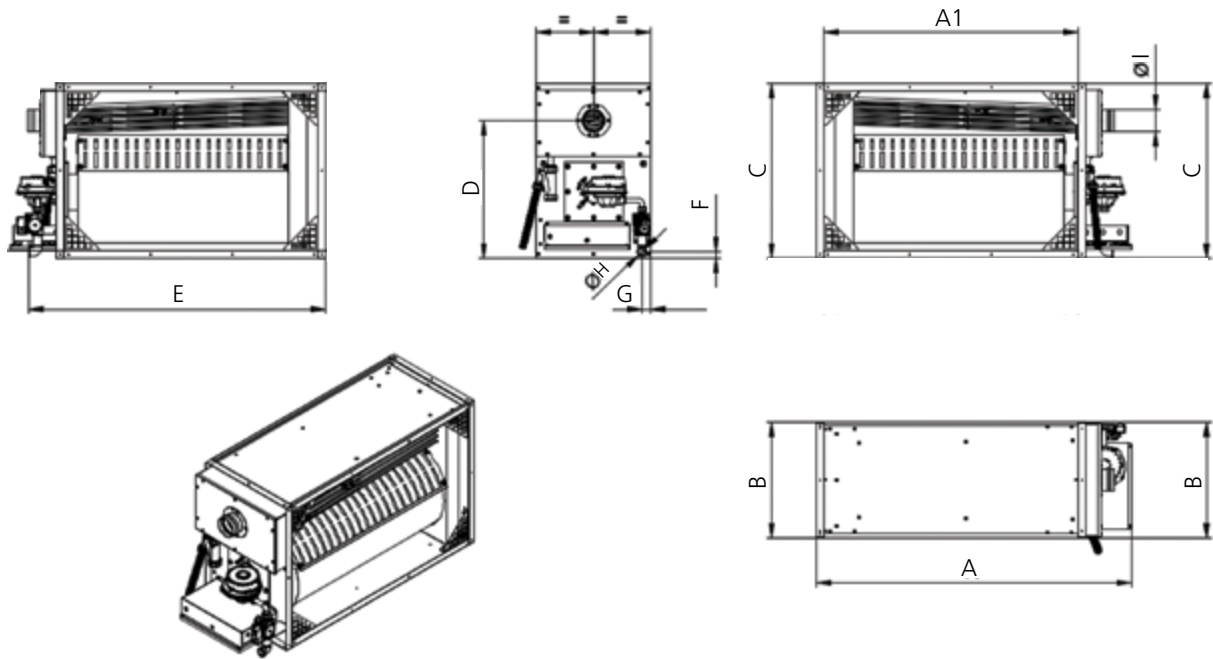


Technical Data

RHCLN			30	40	50	60	90	120
Maximum heat output		kW	28	37	48	57	89	115
Minimum heat output			10	14	19	21	35	43
Max thermal eff. at max input (Nat gas)	net	%	96,1	96,1	96,4	96,6	98,0	99,1
Max thermal eff. at min input (Nat gas)	net	%	106,5	105,1	103,2	105,1	105,2	106,0
Gas consumption ¹	Natural gas G20	m ³ /h	3,1	4,1	5,3	6,2	9,6	12,3
	Propane G31	kg/h	2,28	3,02	3,9	4,57	7,07	9,06
Maximum condensate produced		l/h	1,1	1,3	1,5	1,9	3,3	4,3
Maximum airflow		m ³ /h	8.300	11.000	14.000	17.000	26.000	34.000
Minimum airflow		m ³ /h	2.100	2.750	3.500	4.250	6.500	8.500
Maximum pressure drop		pa	600					
Maximum flue run		m	9	9	9	9	9	9
NO _x Class ²			5					
Flue connection size		mm	80	80	80	80	100	100
Gas connection size			3/4"					
Condensate connection size		mm	20	20	20	20	20	20
Electrical supply			230V ~ 50Hz 1Ph+N					
Weight		kg	48	51	62	66	122	129

1 Natural gas (G20) calorific value 10.48kWh/m³ GCV. Propane (G31) calorific value 14.0kWh/kg GCVG20 methane gas

2 Based upon EN 1020 standard, operating on natural gas (G20).



Dimensions		30	40	50	60	90	120
A	mm	891	891	1234	1234	1755	1755
A1	mm	711	711	1054	1054	1575	1575
B	mm	450	450	450	450	450	450
C	mm	635	635	685	685	840	840
D	mm	498	498	538	538	623	623
E	mm	818	818	1160	1160	1680	1680
F	mm	32	32	25	25	33	33
G	mm	36	36	36	36	32	32

GB/REZ/RHCLN/001/01/18 EN EU



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Company Standards and Services:

All products manufactured by Nortek Global HVAC facilities in Europe are tested and approved to CE standards. All European Nortek Global HVAC production facilities are assessed to EN ISO 9001 Quality Assurance. Nortek Global HVAC offer a service to our customers; including budget schemes, on site technical support and a comprehensive after-sales package. Nortek Global HVAC reserves the right to change specifications without prior notice. Errors and omissions excepted.

